



(19)

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 1 085 706 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
30.10.2002 Bulletin 2002/44

(51) Int Cl.7: H04L 12/46, H04L 12/64

(43) Date of publication A2:
21.03.2001 Bulletin 2001/12

(21) Application number: 00111361.2

(22) Date of filing: 26.05.2000

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE

Designated Extension States:
AL LT LV MK RO SI

(30) Priority: 10.09.1999 JP 25763699

(71) Applicant: MATSUSHITA ELECTRIC INDUSTRIAL
CO., LTD.
Kadoma-shi, Osaka 571-8501 (JP)

(72) Inventors:
• Sasaki, Yuhi
Yokohama-shi (JP)
• Shinohara, Toshiaki
Omiya-shi (JP)
• Tsuzuki, Kengo
Machida-shi (JP)

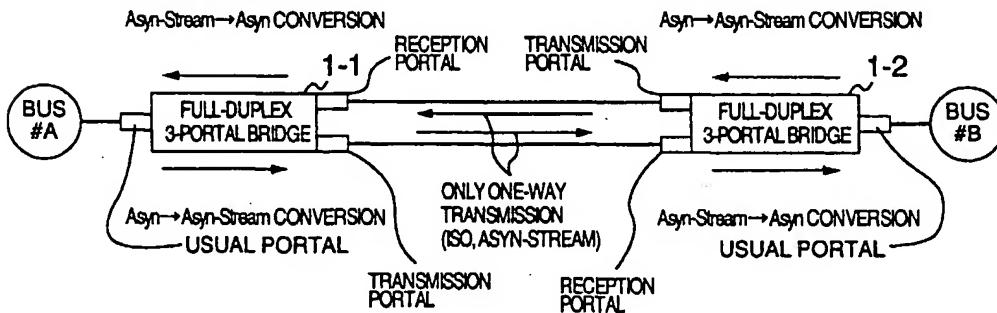
(74) Representative: Kügele, Bernhard et al
Novagraaf SA
25, Avenue du Pailly
1220 Les Avanchets - Geneva (CH)

(54) Bridge for IEEE 1394 bus network

(57) The two-way transmissions are performed between a first bus (#A) and a usual portal of a first full-duplex 3-portal bridge (1-1) and between a second bus (#B) and a usual portal of a second full-duplex 3-portal bridge (1-2), respectively. The one-way transmission of an isochronous packet and an asynchronous stream packet is performed between transmission and recep-

tion portals of the first full-duplex 3-portal bridge (1-1) and reception and transmission portals of the second full-duplex 3-portal bridge (1-2). The first full-duplex 3-portal bridge (1-1) and the second full-duplex 3-portal bridge (1-2) perform a conversion between the asynchronous stream packet and an asynchronous packet if necessary.

FIG. 4A



EP 1 085 706 A3



**European Patent
Office**

EUROPEAN SEARCH REPORT

Application Number

EP 00 11 1361

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	WO 98 11726 A (SONY TRANS COM INC) 19 March 1998 (1998-03-19) * page 12, line 11 - line 21 * * page 14, line 1 - line 9; figure 2 * -----	1,2,5,9, 11,17,18	H04L12/46 H04L12/64
A	EP 0 836 299 A (SUN MICROSYSTEMS INC) 15 April 1998 (1998-04-15) * figure 1 * -----	1-22	
TECHNICAL FIELDS SEARCHED (Int.Cl.7)			
H04L			
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	10 September 2002	Gregori, S	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone	T : theory or principle underlying the invention		
Y : particularly relevant if combined with another document of the same category	E : earlier patent document, but published on, or after the filing date		
A : technological background	D : document cited in the application		
O : non-written disclosure	L : document cited for other reasons		
P : intermediate document	S : member of the same patent family, corresponding document		

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 00 11 1361

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

10-09-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9811726	A	19-03-1998	US 6014381 A AU 4338397 A WO 9811726 A1	11-01-2000 02-04-1998 19-03-1998
EP 0836299	A	15-04-1998	US 6065052 A EP 0836299 A2 JP 10164140 A US 6233615 B1 US 2002059442 A1	16-05-2000 15-04-1998 19-06-1998 15-05-2001 16-05-2002

THIS PAGE BLANK (USPTO)